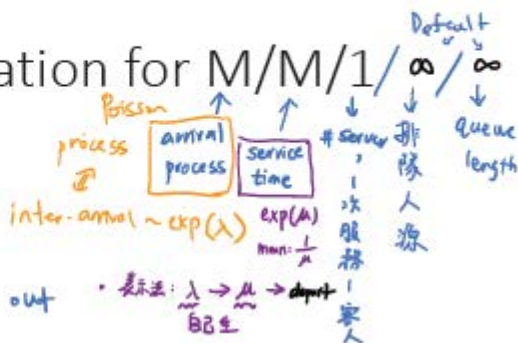


Homework: Write a Simulation for M/M/1/ ∞ / ∞ Queueing System

• Input:

- Num. of Server (1)
- Policy of Queue (FIFO) *first in first out*
- Customer arrival (Poisson process)
- Customer departure
- Service time (Exponential distribution)



• Discuss Output

Can utilization go to 1? 100% busy?

- Server utilization (λ/μ)
- Waiting time (expected value, distribution)

Why plot the distribution of waiting time, but not the histogram?



Homework (It is simple, submit it next week)

- Add the confident interval for your M/M/1 simulation.
- Discuss the different between the simulation round n .